**The Seed Lab**

**Lab Answer Sheet**

**Directions:** As you navigate through and read the seed lab, please fill out this

accompanying guide.

1. T or F A seed is a living thing.
2. What is dormant mean and how does it relate to seeds?
3. What is a baby plant called? What do baby plants initially rely upon for food?
4. What are the things necessary to “wake up” a baby plant?
5. What happens to a baby plant if it never finds enough sunlight?
6. How long can seeds “survive”?
7. What are “King Tut’s Bean Seeds”?
8. What is a plant embryo?
9. What protects a plant embryo?
10. Explain what the testas of the seeds you planted looked like.
11. What happens when a testa gets warm and soggy?
12. Sketch your bean and sunflower seed and label the helium and describe its function.
13. Copy and past the picture from the lab onto this document and label the following parts and beside the label place a belief description of each of their functions: **cotyledons**, the **radicle**, the **hypocotyl**, the **epicotyl,** and the **plumule.**
14. What is a mature seed?
15. In an immature seed, what is an endosperm?
16. What will become of the radicle once it begins to grow?
17. What will the radicles search for when they begin to grow?
18. What will become of the hypocotyl and what will it search for as the embryo grows?
19. What is the name for the process that occurs when the seed “wakes up”?
20. Copy and past the process of the seed “waking up” and summarize each step of the process of the plant “waking up”.
21. What fuels the initial part of the seed “waking up”?
22. What is the difference between a producer and a consumer?
23. Be sure you can answer all of the questions under “What Do You Remember?” HINT HINT!!!
24. What is the difference between a monocot and a dicot?
25. Are your bean a sunflower seeds monocots or dictots? Explain what your saw when you removed the seed coat.
26. Differentiate between the veins in a monocot vs. a dicot.
27. Differentiate between the flowers in a monocot vs. a dicot.
28. In the pictures labeled are they a monocot or dicot?

A.

B.

C.

D.